

CLAIMS

What is claimed is:

1. A regulator assembly comprising:
 - a glass support member for supporting a pane of glass;
 - a drive motor producing a drive force for moving said glass support member between open and closed positions;
 - a flexible belt having a profile, said belt interconnecting said drive motor and said glass support member; and
 - a pulley with a complementary profile to said profile of said flexible belt, said pulley engaging said belt and movable relative thereto in response to said drive force.
2. The assembly as set forth in claim 1, wherein said belt is a timing belt and said pulley is a timing pulley.
3. The assembly as set forth in claim 1, wherein said pulley is a drive pulley connected to said drive motor for receiving said drive force.
4. The assembly as set forth in claim 3, wherein belt is a continuous loop supported between said drive pulley and a support pulley.
5. The assembly as set forth in claim 4, wherein said pulleys are supported by spaced apart brackets.
6. The assembly as set forth in claim 5, wherein said brackets includes stops defining said open and closed positions.

7. The assembly as set forth in claim 1, further including spaced apart guides supporting said glass support member with said belt arranged generally parallel between said guides.

8. The assembly as set forth in claim 3, wherein said belt includes terminal ends fixedly supported by brackets with said pulley arranged between said brackets.

9. The assembly as set forth in claim 8, further including a drive support supporting a said drive motor and at least one idler pulley adjacent to said drive pulley for maintaining engagement between said belt and drive pulley, and said glass support member connected to said drive support.

10. The assembly as set forth in claim 8, wherein said belt includes end portions with stops defining said open and closed positions.

11. The assembly as set forth in claim 1, further including a rod supporting opposing portions of said belt to maintain a distance between said opposing portions during installation of the assembly onto a door.

12. A regulator door module for a door comprising:

- a panel adapted to be secured to the door;
- a glass support member for supporting a pane of glass;
- a drive motor producing a drive force for moving said glass support member between open and closed positions;
- a flexible belt having a profile, said belt interconnecting said drive motor and said glass support member;
- spaced apart brackets connected to said panel supporting opposing end portions of said belt; and
- a drive pulley with a complementary profile to said profile of said flexible belt, said drive pulley connected to said drive motor with said drive pulley engaging said belt and movable relative thereto in response to said drive force.

13. The module as set forth in claim 12, wherein said belt is a timing belt and said pulley is a timing pulley.

14. The module as set forth in claim 12, wherein belt is a continuous loop supported between said drive pulley and a support pulley with said pulleys supported by said brackets.

15. The module as set forth in claim 14, wherein said brackets includes stops defining said open and closed positions.

16. The module as set forth in claim 12, further including spaced apart guides secured to said panel supporting said glass support member with said belt arranged generally parallel between said guides.

17. The module as set forth in claim 12, wherein said belt includes terminal ends fixedly supported by brackets with said pulley arranged between said brackets.

18. The module as set forth in claim 17, further including a drive support supporting a said drive motor and at least one idler pulley adjacent to said drive pulley for maintaining engagement between said belt and drive pulley, and said glass support member connected to said drive support.

19. The module as set forth in claim 17, wherein said end portions include stops defining said open and closed positions.